ADVC700

High-Quality Analog/Digital Video Conversion

Key Features

- Connects broadcast video equipment to FireWire-equipped computers for video editing
- Converts common broadcast digital and analog video and audio formats
- Rack-mount capable
- Compatible with Windows and Mac operating system-based DV editing systems
- Compatible with leading editing and DVD authoring applications including Grass Valley EDIUS®, Sony Vegas, Apple Final Cut Pro and iMovie, Avid Xpress DV, Adobe Premiere Pro, Avid Liquid, Ulead MediaStudio Pro, and Windows Movie Maker
- No drivers or software applications to install
- NTSC and PAL compatible

Our ADVC700 unit is a bi-directional analog/DV video converter that features Canopus® PerfectSync technology to ensure impeccable conversion of every frame.

A 19-inch breakout box with component video, composite, S-Video, and balanced and unbalanced audio I/O, the ADVC700 unit offers high-end features, including LTC input/output and RS-422 signal conversion for professional VTR control.

Perfect Signal Synchronization

In studio environments, frame accuracy is essential for precise offline/online editing. The ADVC700 delivers this accuracy through its use of PerfectSync technology.

PerfectSync technology controls and synchronizes the transfer rate of FireWire (IEEE 1394) communication with an external reference signal. This process prevents skipped and duplicate frames and produces perfect frames during analog-to-DV conversion.

By contrast, many analog-to-DV converters adjust their output by skipping and/or duplicating frames to synchronize the DV signal to an external sync signal's frame frequency. In these converters, there is no guarantee that all input frames will output to DV accurately without frame repetition and/or frame drops.

DV Signal Conversion For VTR Control

The ADVC700 converts DV device control signals to RS-422 signals for external VTR control. Such control makes it possible to take in data from professional VTRs, such as Digital Betacam decks, through any standard DV editing software that features DV device control.

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Specifications

Video Format

NTSC, PAL, SECAM (input only)

Digital Video

6-pin FireWire, 4-pin FireWire

Digital Audio Input

- DV 2-channel: 48 kHz, 16 bit
- DV 2-channel: 32 kHz; 16-, 12 bit

Digital Audio Output

- DV 2-channel: 48 kHz, 16 bit
- DV 2-channel: 32 kHz; 16-, 12 bit

Analog Video Input

S-Video composite (RCA), component (3 x BNC)

Analog Audio Input

- Stereo unbalanced (2 x RCA), stereo balanced (2 x XLR)
- Stereo balanced (2 x XLR-3-31 female; 1-gnd, 2-hot, 3-cold)

Analog Video Output

S-Video, composite (BNC), component Y,Pb,Pr (3 x BNC)

Analog Audio Output

- Stereo unbalanced (2 x RCA), stereo balanced (2 x XLR)
- Stereo balanced (2 x XLR-3-31 female; 1-gnd, 2-hot, 3-cold)

Time Code

LTC in (BNC), LTC out (BNC)

Reference

Input (BNC), loop-through (BNC)

Device Control

AV/C over IEEE 1394, RS-422A (bi-directional conversion)

Display

- LCD configuration menu, stereo audio peak
- Meters: -48 dB to 0 dB (FS) display, -17 dB to 0 dB (FS) peak hold

Power

Included DC adapter

Environmental Characteristics

- Operating temperature: 10 to 35°C
- Storage temperature: -20 to 60°C
- Maximum humidity: 80%

Dimensions

- Width: 430 mm (16.93 in.)
- Depth: 245 mm (9.65 in.)
- Height: 44 mm (1.73 in.)

Minimum Computer System Requirements

Windows PC

- Windows 2000 (Service Pack 3 or higher), Windows XP Home, or Windows XP Professional (Service Pack 1 or higher)
- DirectX 8.0 or higher

Mac

- Mac OS X (10.2.7/10.2.8/10.3/10.4.x)

Note: A video-capture card or OHCI FireWire connection is required to capture DV.

Service and Support

1-year limited warranty

Package Contents

- ADVC700 unit
- AC adapter
- 1 x IEEE 1394 FireWire cable (6-pin to 4-pin)
- User manual
- 1 RU rack-mount brackets

Grass Valley™ products from Thomson provide comprehensive, multi-format support for a wide range of professional video uses, from those in corporate media centers and educational institutions to those in concert and sports arenas, convention centers, and houses of worship.

These solutions include the ADVC® line of analog-digital conversion products. Built on reliable and highly robust Canopus technology, they provide maximum performance and reliability for high-demand professional video production environments.

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